APPENDIX A

Summary of Test Conditions

This appendix includes a table which summarizes the setup and conditions of the tests conducted.

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Summary of Test Conditions, Organized by Scenario Appendix A

Scenario		Source		Source				
No.	Test No.	Description	Source Details	Elevation	Source Location	Ignition Source	Igniter Location	Comments
	6		Motor burner on elde					
	2							For all propage burners, vents
	21					4		were approximately half open
	22		Meker burner vertical	•		match		and were adjusted to maintain
	23	Propane Burner		1.5 m below	Standard			Dide Harries
	59		Bunsen burner vertical, flame spreader tip	Silling Silling				
	63		Meker burner, horizontal, 13 cm flame			butane flame		1.7 Lpm flowrate
	116		Bunsen burner, horizontal, 3 cm flame			butane flame		MIC malfunction
	12							
	24				Standard	match		
8	Se 12	Heptane Pool Fire	100 mL in 7.7 x 7.7 x 2.2	the celling				
	41		сш рап			butane flame		
	53		•	2.4 m below	1.8 m from North wall	butane flame		
	145			the celling	Standard	match		
	27		50 mL in 7.7 x 7.7 x 2.2 cm pan					
٠	28	ID-5 Doot Fire		1.5 m below	Standard	nronana torch		
2	30		25 m	the ceiling		in our photo		
	£ &							
•	33	0 0	25 mL in 7.7 x 7.7 x 2.2	1.5 m below	700	4000		
7	34	Jr-6 F001 FIRE	cm pan	the celling	Standard	proparie torcii		
	35		50 mL in 7.7 x 7.7 x 2.2					
വ	36	Alcohol Pool Fire	100 ml	1.5 m below	Standard	propane torch		
	37		150 mL	A COUNTY OF THE				
	38							

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Summary of Test Conditions; Organized by Scenario Appendix A

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Source	Test No.	Source Description	Source Details	Source	Source Location	Ignition Source	Igniter Location	Comments
	15		15 x 15 x 11.4 cm			!		
9	16	Smoldering	sample with 1	1.5 m below	Standard	300W glocoil (54.5 volts)	On top of mattress	
	17	Malless	and 2 sheets					
,	6	Flaming Mattress (Foam only)	15 x 6 x 11.4 cm	1.5 m below the ceiling	Standard	Horizontal Meker burner with wing tip, 13 cm flame	9 cm from mattress	
	10		15 x 15 x 11.4 cm			Horizontal Meker	9 cm from mattress	
•	13	Flaming Mattress		1.5 m below	Standard	tlp, 13 cm flame		
æ	39	(Loose Bedding)	and 2 sheets. 8 cm	the ceiling		Horizontal Bunsen	1.5 cm from	
	40		front of mattress			tip, 8 cm flame	mattress	
	99		15 x 15 x 11.4 cm			Horizontal Bunsen	<u></u> 4	
d	29	- Flaming Mattress	_	1.5 m below	Standard	tlp, 8 cm flame	1 cm from mattress	
D	89	(Tucked Bedding)	and 2 sheets. Bedding completely surrounded mattress	the celling		Horizontal Bunsen burner with wing tip, 2.5 cm flame		
	48		15.2 x 15.2 cm pillow, no case					
9	49	Smoldering Pillow	24.5 x 32 cm pillow, 26 x 34 cm case, one short edge of case open	1.5 m below the ceiling	Standard	300 watt glocoil (54.5 volts)	On top of pillow	
	20		22 x 34 cm pillow with		0.61 m from North wall, 1.83 m from East wall		Beneath pillow on wood platform	SO ₂ sensor not responding
	55		case		Standard		On top of pillow	
	82			2.4 m below the celling	Standard	Horizontal Meker burner with wing tip	Edge of pile	CO (mV) sensor not working
Ŧ	54	Laundry Pile	1 towel, 1 boxers, 1 briefs, 1 t-shirt	2.4 m below the ceiling	0.61 m from North wall, 1.83 m from East wall	amely another	Exposed to waist band of boxer	Photoelectric malfunction
	57			2.4 m below the ceiling	Standard		shorts for 20 seconds	SO2 sensor not responding, photoelectric malfunction

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しょう アンチ ははってき マイン・オイフ アン・オラ かりは ロロス たいぎょ ギャット かっぱ 野子 かっしょう など 生物をおえ 気ががなかる じょうじょ かっこの 数数数据 養養事

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Summary of Test Conditions, Organized by Scenario Appendix A

100 Smoldaring	Source		Source		Source			201000	of money.
100 Smoldening LSDSGU-14 (6 cables per per bundle, center cable 33 cm long, other cable 100 Smoldening LSTHOC-8 (6 cables per bundle, all 33 cm long, other cable 110 Cables per bundle, all 33 cm long, other cable 111 110 Cables 112 Cables 113 Cables 114 Cables 114 Cables 114 Cables 115 Cables 115 Cables 116 Cables 116 Cables 117 Cables 118 Cables Cabl	Type	Test No.	Description	Source Details	Elevation	Source Location	ignition source	igniter Location	Commens
103 Samuddaring Samuddar		;		LSDSGU-14 (6 cables			Welder initially at		
103 Smoldering Biochical Cable LSTHOF-8 (6 cables per mining) Electrical Cable LSTHOF-8 (6 cables per mining) LSTHOF-8 (6 cables per mining, others 20 cm long) LSTHOF-8 (6 cables per bundle, center cable series per bundle, center cable 111 Cable LSTHOF-8 (6 cables per long) LSTHOF-8 (6 cables per long) LSTHOF-9 (6	÷	66		per bundle, center cable			340 A, Increased		
100 Smoldering LSTHOF-9 (6 cables per mong) 15 m below 101 102 10 m below 101 102	y	103		33 cm long, others 20			Welder initially at		
100 Smoldering LSTHOF-9 (6 cables per pundle, center cable 53 1.5 m below Standard 340 A, increased 340 A, increase		100		cm long)			500 A, reduced to		
100 Smootbering Durdles, center cable 33 1.5 m below Standard Durdles, center cable 33 1.5 m below Standard Do SSOA 100 LSTPNW-1-12 (10 Cables per bundle, per bundl				LSTHOF-9 (6 cables per			Welder Initially at		Contex cable charged
105 Electrical Cable Cm long)	13	2	Smoldering	bundle, center cable 33	1.5 m below	7	540 A, Illoredsed to 550 A		ספוופו פמסום סוומואפס
105		101	Electrical Cable	cm long, omers zu cm long)	the ceiling	Standard	Welder at 500 A		
106		102					Welder initially at		
106		105		LSTPNW-1-1/2 (10			340 A, decreased		
106	4	1		cables per bundle, all 33					MIC re-calibrated, center
110 Par bundle, center cable 33 cm long, center cable 112 32 cm long, center cable 33 cm long, center cable 34 cm long, center cable 35 cm l		106		cm long)			Welder at 250 A		rged
110 LSDSGU-14 (6 cables per bundle, center cable 33 cm long) 111		107							Center cable charged
112 Samulug Electrical Cable Cables per I.5 m below can for cable cap caper. Standard cap caper. Standard cap caper. Standard cap		110		LSDSGU-14 (6 cables					
112	15	11		per bundle, center cable	•				
Faming Electrical bundle, center cable 39 the ceiling bundle, center cable 30 the ceiling bundle, center cable 30 the ceiling to cable capter cable 30 the ceiling bundle, center cable 30 the ceiling bundle, center cable 30 the ceiling capter to capter cable 30 the ceiling bundle) See the ceiling the ceiling bundle, center cable 33 the ceiling capter, 5 flat the ceiling the ceiling capter, 5 flat capter, 5 flat the ceiling capter, 5 flat the ceiling capter, 5 flat capter,		112		ss cm long, others 20 cm long)					Center cable charged,
114 Cable center cable 33 1.3 in below Standard propane torch 115		133		LSTHOF-9 (6 cables per					cables heated ohmically by
115	9	;	Cable	bundle, center cable 33		Standard	propane torch		Weidel at 5000
115 LSDSGU-50 (1 cable per bundle) LSDSGU-50 (1 cable per bu	_	*		cm long, others 20 cm	P				
58 59 Coffice Trash Can sheets of paper, frash bag 61 62 Consider the celling the celling trash bag 62 63 Consider the celling the celling that the celling tha		115		(buol					
59 Coffice Trash Can sheets of paper, plastic trash bag to see the celling trash bag to see the celling to sheets of paper, plastic telling trash bag to see the celling the c	17	109		LSDSGU-50 (1 cable per					Center cable charged,
59 coli (94 volts) Clgarette (1 to 11 min.) then glocoil sheets of paper, plastic trash bag trash bag to be seed to be sheets of paper, plastic trash bag trash bag to be seed to be sheet bag to be sheet by sheet bag to be				Dundle)					welder at 600 A
59 towels, 10 crumpled paper towels, 10 crumpled sheets of paper, plastic trash bag trash bag to the celling the c		5.8					20.3 cm match		Fire grew too quickly, SO ₂
59 towels, 10 crumpled paper towels, 10 crumpled paper towels, 10 crumpled sheets of paper, 5 flat sheets of paper, 5 flat trash bag for the celling t		3					20.0 oll match		sensor not responding
towels, 10 crumpled paper towels, 10 crumpled below towels, 10 crumpled below sheets of paper, 5 flat the ceiling sheets of paper, plastic trash bag for coll (94 volts)							cigarette (1 to 11		With cigarette no visible
Office Trash Can sheets of paper, 5 flat the celling sheets of paper, plastic trash bag 61 glo coli (94 volts)		29		10 crumpled paper			(55)/ for 2 min		smoke/fire other than cigarette,
sheets of paper, plastic the celling trash bag glo coli (94 volts)	18		Office Trash Can	sheets of paper, 5 flat	2.4 m below	Standard	94 V remaining)	Dropped In trash	SO ₂ sensor not responding
trash bag glo coli (94 volts)		09		sheets of paper, plastic	the celling			can	SO ₂ sensor not responding
glo coli (94 volts)				trash bag					Glo coil positioned deeper in
		-6					glo coll (94 volts)		can than in previous tests, SO2
			•						sensor not responding
The state of the s		62							SO ₂ sensor not responding

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Summary of Test Conditions, Organized by Scenario

Source		Source		Source	10000	lanition Source	laniter Location	Comments
Туре	Test No.	Description	Source Details	Elevation	Source Focusion			MIC malfunction
	117		Med alactomoria foam			Hodrach Buncan	On side of sample.	MIC malfunction
	118	Pine Insulation fire	 -	1.5 m below	Standard		<1 cm from	MIC malfunction
19	119		chlorinated Alkyd white	the ceiling		ttp	insulation	MIC malfunction, lagging was
	130	,	paint, 20.3 cm long	-				cut before test (I.e., sliced)
	0.71		and of our other transfers					Insulation coated in oil 4 days
	121		rewettable glass lagging.			Horizontal Bunsen	On side of sample,	prior to test, MIC malfunction
		-		1.5 m below	Ctandard	burner with wing	<1 cm from	days of paters actionist
20	122	coated with oil fire (NH Armaflex)	paint, soaked with	the ceiling		th	Insulation	prior to test
	123		lubricating Oil, 20.3 cm					
	127		Calclum silicate	in the second		Horizontal Bunsen	On side of sample,	
23	128	Pipe Insulation Fire	insulation with glass	the ceiling	Standard	burner with wing	insulation	
	129	(Calcium Sincare)	20.3 cm long	,		up, 2.34 cm name		
	124		Calclum silicate			Horizontal Bunsen	On cide of comple	:
	13	Pipe Insulation	insulation with glass	1.5 m below	7.00	burner with with	on side of sample,	Insulation coated in oil 5 days
22	125	coated with oil fire	cloth lagging, painted,	the ceiling	Startuaru	wing tip, 2.54 cm flame	insulation	prior to test
	126	(Carcial Cincard)	oil, 20.3 cm long					
	4		Reliey Benton insulation,		,	Horizontal Meker	On side, 9 cm from insulation	
		Polyimid Acoustic		1.5 m below	Standard	burner with wing		
3	46	Insulation	Relley Benton Insulation,	fue celling		tip, 13 cm flame	On side, 2 cm from	
	4/		20 cm wide x 30 cm high				Insulation	SO ₂ sensor not working
	5 =					Meker burner with	On side 8 cm from	
į	19	Nomex Honeycomb	Todco waliboard, 10 cm wlde x 30 cm high	1.5 m below	Standard	wing tip, 13 cm flame	material	Burners were horizontal
	42	(TODCO)	Todco wallboard, 10 cm	the ceiling		Bunsen burner	On side, 1.5 cm	
	5		wide x 30.5 cm high			with wing tip	from material	
	44	Nomex Honevcomb	<u> </u>	1.5 m below		Horizontal Bunsen	0	
52	45	Wall Panel (Hexcel)	wide x 30 cm	the ceiling	Standard	Durner with wing	from material	
26	65	Acoustical Insulation with out face material	Acoustical insulation, 10 cm wide x 30 cm high	1.5 m below the ceiling	Standard	Bunsen Burner with wing tip, 2.54 cm flame	On side, 1 cm from material	SO ₂ sensor not working

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Source	Test No.	Source Description	Source Details	Source Elevation	Source Location	Ignition Source	Igniter Location	Comments
	75							Toaster clamped in On position
Nulsance 1	92	Burning Toast	Burning toast, 1 slice	1.5 m below the celling	Standard	Toaster		Toaster clamped in On position, UL 217 lon sensor not working
	77							Toaster does not pop up automatically
2	73	Normal Toasting	Normal toasting, 8 slices at once, 8 slices total	1.5 m below	Standard	Two toasters used		Toasters automatically pop up
	80		Normal toasting, 8 silces at once, 24 slices total	rne cennig		Simulament		
	89		Welding, 0.32 cm thick steel plate with 7018 rod					Compartment door not completely closed, welding lead
,	66	:		2.4 m below	7			Idilling unough doorway
ო	6	Welding	Welding, 0.48 cm thick steel plate with 7018 rod	the ceiling	Standard			Door not completely closed, welding lead running through doorway, ion malfunction
	85	Cutting Steel with	Cutting steel with	2 4 m helow				Sensors dld not significantly change when door was left
4		Acetylene Torch	acetylene torch	the celling	Standard			detector replaced
	88							
	74	Coto Collection	Continuously grinding	2.4 m below	Change			Milwaukee 4-1/2"
c	82	Gilliuliy Steel	steel	the celling	Statiualu			Sander/Grinder
9	83	Grinding Cinder Block	Continuously grinding	2.4 m below the celling	Standard			Milwaukee 4-1/2"
	36			D				9 min of cutting
	93	,	Cutting Lauran with	2 4 m helow				3.5 min of cutting
,	94	Cutting Lauan	circular saw	the ceiling	Standard			9 min of cutting, MIC sampling
	95							7.25 min. of cutting
~	96	Burning Popcorn in	Burning popoorn in	1.5 m below	Standard			
,	98	Microwave	cook time	the celling	Olarivary			

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Summany of Test Conditions Organized by Scenario Appendix A

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Floor Level 1.5 m below the ceiling the ceiling the ceiling the ceiling the ceiling		_	•	
Gas Engine Gas-powered power Floor Level washer, 18 hp 1400 watt electric heater, set to maximum the ceiling one Halogen 500 watt worklight 5 people talking 4 people talking 4 people talking 6 cigarettes smoked, 1 at a time 7 cigarettes smoked, 1 at a time 12 cigarettes smoked, 1 at a time 12 cigarettes smoked, 4 to ceiling people smoking at once 14 cigarettes smoking at once 14 cigarettes smoking at once 15 people smoking at once 16 cigarettes smoking at once 17 cigarettes smoking at once 18 cigarettes smoking at once 19 people smoking at once 19 cigarettes cigarettes smoking at once 19 cigarettes cigarettes smoking at once 19 cigarettes ciga	on Source Location	Ignition Source	Igniter Location	Comments
Cigarette Smokers Cigarette Smokers Cigarette Smokers Cigarette Smokers Cigarette Smokers Cigarettes smoked, 4 people smoking at once the celling a time time to celling at me celling at time to celling at a time time to celling at a time to celling at a time to celling at a time to celling the celling at a time to celling at a time to celling the celling at a time to celling the celling to celling the celling to celling the celling to celling the cellin				
Electric Heaters and Two 1400 watt electric heater, set to maximum. Light heaters, set to maximum, the ceiling one Halogen 500 watt worklight worklight People Talking 5 people talking the ceiling 4 people talking the ceiling 6 cigarettes smoked, 1 at a time 7 cigarettes smoked, 1 at a time 12 cigarettes smoked, 2 at a time 12 cigarettes smoked, 4 1.2 m below people smoking at once the ceiling 14 cigarettes smoked, 4 people smoking at once the ceiling 14 cigarettes smoked, 4 people smoking at once the ceiling 14 cigarettes smoked, 4 people smoking at once the ceiling 14 cigarettes smoked, 4 people smoking at once the ceiling 14 cigarettes smoked, 4 ci				
Electric Heaters and Two 1400 watt electric Light heaters, set to maximum, the ceiling one Halogen 500 watt worklight People Talking 5 people talking the ceiling 4 people talking the ceiling 6 cigarettes smoked, 1 at a time 7 cigarettes smoked, 1 at a time 12 cigarettes smoked, 2 at a time 12 cigarettes smoked, 4 1.2 m below people smoking at once 14 cigarettes smoking at once 14 cigarettes smoking at once 14 cigarettes smoking at once 15 cigarettes smoking at once 16 cigarettes smoking at once 17 cigarettes smoking at once 17 cigarettes smoking at once 18 cigarettes smoking at once 19 cigarettes s	Standard			Rival Model No. RT12/1
Electric Heaters and Two 1400 watt electric 1.5 m below heaters, set to maximum, the ceiling one Halogen 500 watt worklight People Talking 5 people talking the ceiling 4 people talking the ceiling 6 cigarettes smoked, 1 at a time 7 cigarettes smoked, 1 at a time 12 cigarettes smoked, 2 at a time 12 cigarettes smoked, 4 1.2 m below people smoking at once 14 cigarettes smoking at once 14 cigarettes smoking at once 14 cigarettes smoking at once 15 cigarettes smoking at once 16 cigarettes smoking at once 17 cigarettes smoking at once 18 cigarettes smoking at once 19 cigare				
Light heaters, set to maximum, the ceiling one Halogen 500 watt worklight People Talking 5 people talking 1.2 m below 4 people talking the ceiling 6 cigarettes smoked, 1 at a time 7 cigarettes smoked, 1 at a time 12 cigarettes smoked, 2 at a time 12 cigarettes smoked, 4 1.2 m below people smoking at once 14 cigarettes smoking at once	wor			Rival Model No. RT12/1
People Talking 5 people talking 1.2 m below 4 people talking the celling 6 cigarettes smoked, 1 at a time 12 cigarettes smoked, 2 at a time 12 cigarettes smoked, 4 1.2 m below people smoking at once 14 cigarettes smoked, 4 people smoking at once 14 cigarettes smoked, 4 people smoking at once 14 cigarettes smoked, 4 people smoking at once 14 cigarettes smoked, 4 cigarettes smoking at once 14 cigarettes smoking at once 14 cigarettes smoked, 4 cigarettes smo	ng 3 m from North wall			electric heater, Regent
People Talking 5 people talking the celling 4 people talking the celling 6 cigarettes smoked, 1 at a time 7 cigarettes smoked, 2 at a time 12 cigarettes smoked, 2 at a time 12 cigarettes smoked, 4 1.2 m below people smoking at once 14 cigarettes smoked, 4 people smoking at once 14 cigarettes smoked, 4 cigarettes smoking at once 14 cigarettes smoking at once 14 cigarettes smoking at once 14 cigarettes smoking at once 15 cigarettes smoking at once 15 cigarettes smoking at once 15 cigarettes smoking at once 16 cigarettes smoking at once 17 cigarettes smoking at once 17 cigarettes smoking at once 18 cigarettes smoking at once 18 cigarettes smoking at once 19 cigarettes s				naiogen worklight
Cigarette Smokers Cigarette Smoked, 1 at a time 7 cigarettes smoked, 1 at a time 12 cigarettes smoked, 2 at a time 12 cigarettes smoked, 4 1.2 m below people smoking at once the celling people smoking at once	L			
Cigarette Smoked, 1 at at lime 7 cigarettes smoked, 2 at a time 12 cigarettes smoked, 4 1.2 m below people smoking at once the ceiling people smoking at once	_			
Cigarette Smokers Cigarette Smokers Cigarette Smokers 12 cigarettes smoked, 4 people smoking at once the ceiling to people smoking at once people smoking at once the ceiling to peop				
Cigarette Smoked, 2 at a time at a time at a time 12 cigarettes smoked, 4 12 m below people smoking at once 14 cigarettes smoked, 4 people smoking at once				
Cigarette Smokers 12 cigarettes smoked, 4 1.2 m below people smoking at once the celling people smoking at once				
Cigarette Smokers people smoking at once the celling 14 cigarettes smoked, 4 people smoking at once				
	elow Under sensor array			Parliament Lights cigarettes
A postomo orthograph as				
14 cigarettes sinokeu, 4 people smoking at once				

1. Standard source location was centered in the compartment, 1 m from the North-end wall.